Advance Tyre & Vehicle Dynamics Course

22nd & 23rd November 2022



INTERNATIONAL RUBBER CONFERENCE

Sheraton Grand Bengaluru Whitefield Hotel & Convention Center, Karnataka, India.





MESSAGE





Dear Sir / Madam,

We are pleased to inform you that the Indian Rubber Institute (IRI) is organizing International Rubber Conference & Expo (IRC2022) in association with International Rubber Conference Organization (IRCO) from 24th to 26th November 2022 at Sheraton Grand Bengaluru Whitefield Hotel & Convention Center, Karnataka, India. The theme of the conference is "Sustainable technology, innovation, and Mobility"

The present members of the IRCO are Australia, Brazil, China, Czech Republic, France, Germany, India, Japan, Korea, Malaysia, the Netherlands, NGTR, Slovak Republic, Thailand, Turkey, UK, and the USA. The International conference is being held on a rotation basis in all these countries. As a part of this mega event, the Indian Rubber Institute (IRI) is organizing a two-day **Advanced Tyre and Vehicle dynamics course** with the support of Virginia Tech University, The USA, and TS Testing Service GmbH, Germany.

Prof. Dr. Saied Tahari, from Virginia The USA, and Dr. Stephen Koehne, owner and managing director of TS Group GmbH in Aachen, Germany will be delivering the lectures. The programme will be held on 22nd and 23rd Nov. 2022, at Sheraton Grand Bengaluru Whitefield Hotel & Convention Center, Karnataka, India. The participation fee for a two days programme is Rs.50,000/- + GST for Indian participants and USD 900 for international participants. This will be a great opportunity for budding tyre technologists to enhance their knowledge to perform better in their careers. Requesting participation from your organization in this programme to make it a great success.

Thanking you for your support.

P.K.Mohamed Chief Convener IRC2022, Bengaluru, India

International Rubber Conference Organization (IRCO)

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Indian Rubber Institute (IRI)

Indian Rubber Institute (IRI) is a professional body of Technologists, Engineers, Scientists, Academicians, and Professionals associated with the Indian Rubber industry. It was registered on 25th May 1987 under West Bengal Societies Act XXVI of 1961 and is the successor in India of Plastics and Rubber Institute (PRI), London, U.K. IRI is a non-profit organization engaged in the development of diverse areas of technological education, training and skill development in Rubber sector. Affiliated with American Chemical Society (ACS), Rubber Division Member of International Rubber Conference Organization (IRCO), UK. IRI is also an approved Training Provider of Rubber, Chemical & Petro Chemical Skill Development Council (RCPSDC), under the National Skill Development Corporation (NSDC), Govt. of India





FACULTY PROFILE





Prof. Dr. Saied Taheri

Saied Taheri is a Professor of Mechanical Engineering at Virginia Polytechnic Institute and State University, known as Virginia Tech (VT). He has been the founding director of the NSF I/UCRC Center for Tire Research (CenTiRe) since 2012 and the director of the Intelligent Transportation Laboratory since 2008.

He was also the co-founder of the National Tire Research Center in 2009. He has 30 years of academic and industrial experience in automotive engineering (tire and vehicle dynamic modeling and design), dynamics and control, and intelligent systems, with applications in intelligent tires and vehicles, vehicle dynamics and control, automotive and transportation safety, and railroads. Prior to joining VT in 2007, he worked at Goodyear Tire and Rubber Company and an the University of Akron (1998-2007) and earlier worked as an assistant professor at Tehran Polytechnic Institute (1991-1998).

Dr. Taheri has been instrumental in the establishment of a new and unique undergraduate major in Robotics and Mechatronics at VT-ME and is currently working on establishing an undergraduate major and a graduate program in Automotive Engineering. He has published 163 refereed (journal and conference) articles, delivered 76 abstracts in presentations, seminars, and invited talks, and is currently finishing a book in Vehicle Dynamics. At Virginia Tech, he has directed 8 post-docs/visiting scholars, 16 doctoral dissertations, 19 master theses, and 76 undergraduate student projects, and served as reader/examiner of 46 additional theses and dissertations. His sponsored research has reached \$15.2M. He is an associate editor of two journals, and was the President of the Tire Society (2014-2016). He received his B.S., M.S., and Ph.D. degrees in Mechanical Engineering from Clemson University in 1984, 1986, and 1990, respectively.



Dr. Stephen Koehne

Stephen Korine is an engineering graduate from the university of RWTH and obtained a doctorate degree from the university of KIT. Owner and managing director of TS Group GmbH in Aachen (150 employees)Holding of several companies in the field of CO2-free production of Iron, Concrete, and Methanol. He was the owner and managing director of TS Testing Service GmbH in Aachen (45 employees) from 2004 – 2022. More than 15 years experience in building world-leading test equipment (Tire and automotive test machine) More than 12 years experience in operating Tire Testing Lab





PANELIST PROFILE





Session Chairman
Prof. C S C. S. Shankar Ram

C. S. Shankar Ram received his B.E. degree in Mechanical Engineering from Motilal Nehru Regional Engineering College, Allahabad, India, and M.S. and Ph.D. degrees from Texas A&M University, USA. He is currently a Professor and the V. Ramamurti Faculty Fellow with the Department of Engineering Design, IIT Madras, Chennai, India. His research interests include dynamics and control with applications to automotive and transportation systems.



Mr. Dhanasekar Venkatesan

Dhanasekar Venkatesan is a Senior Manager, Business Development, leading Systems Dynamics for Hexagon Design & Engineering (D&E) team for the Indo-Pacific region. He is an engineering professional having almost 20 years of experience in the field of multibody dynamics covering the Auto, Aero, Rail, Defense, and Heavy industries. Over the years he has replicated various physical tests and failures in the virtual environment and provided a better design. A decade of experience working at global Auto OEM (Stellantis – Merger between Fiat, Chrysler & PSA group) as AGM in India.



Dr. Jaiganesh Subbian

Dr. Jaiganesh Subbian is a Principal Scientist at Global R&D Centre Apollo Tyres Ltd., a world's 11th biggest tyre manufacturer. At Apollo Tyres he is responsible for Vehicle Dynamics and NVH performance of tyres and new Test Methods Development. His key focus areas are Tyre NVH, Virtual Tyre Models, Tyre Modal Model, Tyre Dynamic Balancing, Tyre High Speed Uniformity. He graduated from Indian Institute of Technology (IIT) Madras with a Doctorate in Vehicle Dynamics. He has 5 years of Academic and 13 years of Industrial Experience.



Dr. Prasenjit Ghosh

Dr. Prasenjit Ghosh, a qualified technocrat and a seasoned professional with 23+ years of rich experience in Tyre & Vehicle Mechanics. Products; presently working with Hari Shankar Singhania Elastomer & Tyre Research Institute, Mysore as a Deputy Director. Dr. Ghosh holds M.Tech. degree from IIT Kharagpur and Ph.D. degree from IIT Madras. Dr. Ghosh has hands on experience in Finite Element Analysis of Tyre performance prediction and advanced tyre testing. His research interest includes mechanical behavior of rubber, tyre technology, tyre & vehicle mechanics.



Mr. Renji Issac

More than 31 years in the Tyre Industry, with experience in product development for aftermarket and OEMs and Manufacturing in India and Europe. Currently working as Sr. Vice President and Head of R&D and Technology with CEAT. Also serving as a member of CEAT Excom. For 25 years, he was part of Apollo tyres handling passenger car product development in India and Netherlands. Has European patent in tyre design and has few pending patent applications in India and publications in SAE and other international magazines as well.









PROGRAMME SCHEDULE



Date	Time	Subject	Speaker
22.11.2022	09.30 to 11.15	Tyre forces and moments generation mechanism and their effects on vehicle	Said Taheri
	11.15 to 11.30	Coffee Break	
	11.30 to 13.00	Tyre Testing and its significance - Tyre footprint mechanics, high seed uniformity and high-speed durability (Part-1)	Stephan Koehne
	13.00 to 13.45	Lunch	
	13.45 to 15.45	Handling performance of tyres with respect to vehicle denmand	Said Taheri
	15.45 to 16.00	Coffee Break	
	16.00 to 18.00	Tyre testing and its significance with respect to Rolling resistance, force & movement, traction, tyre wear and uniformity (Part-2)	Stephan Koehne
23.11.2022	09.00 to 11.00	Tire Ride Dynamics and Modal properties	Said Taheri
	11.00 to 11.15	Coffee Break	
	11.15 to 13.00	Tyre testing and its significance with respect to Rolling resistance, force & movement, traction, tyre wear and uniformity (Part-3)	Stephan Koehne
	13.00 to 13.45	Lunch	
	13.45 to 15.45	Vehicle Ride Dynamics	Said Taheri
	15.45 to 16.00	Coffee Break	
	16.00 to 17.30	Panel of discussion	



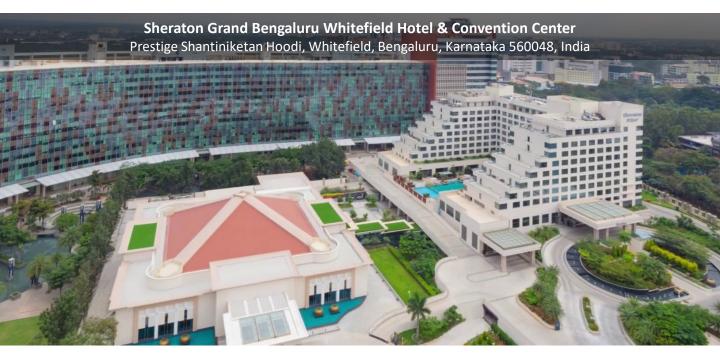


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COURSE FEE

INR 50,000 + 18% GST Indian Participants

USD 900 International Participants

For further details/registration, please contact IRC2022 Workshop Convener Mr. Jiby Isaac Jiby.Isaac@apollotyres.com

CONFERENCE & EXPO SECRETARIAT - IRC 2022

C/o. Helar Marketing & Consultants Pvt. Ltd.

No.10, 20th East Street, Kamaraj Nagar, Thiruvanmiyur, Chennai, India – 600041

Website: www.irc2022.com Email: secretariat@irc2022.com



